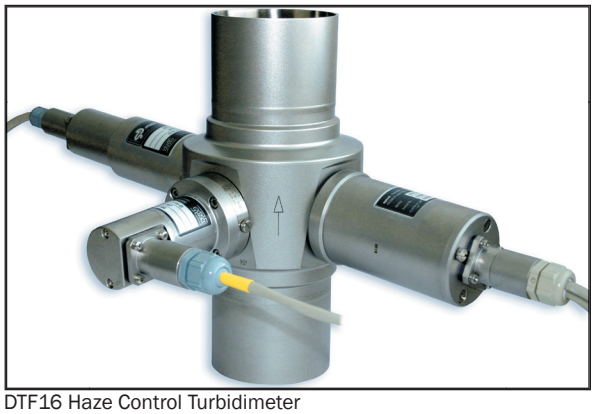
process photometry

Filter Control - From Line to Lab

FROM LINE

DTF16 Haze Control Process Turbidimeter

The DTF16 HAZE CONTROL is a precision turbidity measuring system. The DTF16 features an advanced, triple-beam optical design. It precisely measures light in the forward (11°) and side (90°) direction, with simultaneous light compensation. This allows the DTF16 to effectively measure a broad range of particles that contribute to turbidity and fine haze in the line while providing the Nephelometric results required by most QA/QC guidelines.



DTF16 Haze Control Turbidimeter

Features:

Factory set zero point
Drift-free factory calibration
Drift-free zero point
No recalibration
16 Correlation tables for customization
Data logger (approx. 25,000 data sets)
4 x mA-output
Innovative optical design
Easy operation
Remote-control

4 Simultaneous Measurements:

11° 0-0.1 to 0-25 EBC / 0-5 to 100 FTU
90° 0-0.1 to 0-25 EBC / 0-0.4 to 100 FTU
Absorption: 0-20 to 0-500 EBC
Haze-Index: (90°/11° and 11°/90°)
Other units can be defined simply in the software.
(e.g. NTU, ppm)

TO LAB

DT9011 Laboratory Turbidimeter

The DT9011 Laboratory Turbidimeter uses a dual-angle (90°/11°) scattered-light system to measure turbidity in the bottle, with no sample preparation or de-gassing required. The DT9011 performs 250 precision measurements with each automatic rotation of the sample bottle in the water bath chamber. Glass and even plastic bottles of any color can be used and product color does not affect measurement accuracy.

DT9011 Laboratory Turbidimeter

2 Simultaneous Measurements:

11° 0-0.1 to 0-25 EBC / 0-5 to 100 FTU
90° 0-0.1 to 0-25 EBC / 0-0.4 to 100 FTU
Other units can be defined simply in the software.
(e.g. NTU, ppm)

Features:

Factory set zero point
Drift-free factory calibration
Drift-free zero point
No recalibration
16 Correlation tables for customization
Data logger (approx. 25,000 data sets)
Easy operation

process photometry

Filter Control - From Line to Lab

DTF16 Benefits:

Reduced maintenance costs

- Long-term stability without calibration
- No zero or calibration necessary even after a lamp change
- Only periodical maintenance needed
  - Lamp and o-rings
- No opening of the line necessary – designed for CIP / SIP
- Air purge - pressurized air is maintenance-free
- Easy start-up

Improved Quality

- Direct measurement during the process
- Stable and reproducible measurements
- 90°- measurement in accordance with MEBAK
- 11°- measurement for particulate size sensitivity
- Representative values (by volume)
- Validation possible
- No microbiological risk by opening the line
- No contamination by leakage

DT9011 Benefits:

In-bottle Measurement

- Measures samples in all standard bottles with no degassing or sample preparation required
- Simply insert the bottle, measure, observe and store the turbidity values from the forward and side scatter angles.

Extremely Easy to Operate

- Simply insert sample bottle, choose product code and process line number and the instrument begins it's rotation and analysis cycle. System logs the sample values in a data table after confirmation from the operator.

Superior Confidence in Measurement

- Calibrated to the same Standards and Methods as the optek DTF16 and TF16 Turbidimeters for the closest possible Process-to-Lab correlation.

Fast and Simple Calibration / Validation

- Uses readily available NIST traceable standards or the client's own prepared Reference Standards in a fast and simple two-point calibration.

Winery Applications

Filter Control

DE - Dosing
Feed Monitoring
Filtrate / Permeate Clarity
Color - Dosing
Color - QA /QC
Haze

Cellar

Juice Solids Concentration
Fermentation
Separation
Decanter Control

Centrifuge

Inlet Turbidity to Control Feed
Outlet Turbidity to Initiate Desludging
Measurement of Concentrate

Interface

Juice / Water
High / Low Solids
Wine / Water
Wine / Wine

Utilities

Sanitizer Concentration
BOD - Waste Water
Water Reclaim
CIP Solution Clarity
Water Quality

Lab

Dual-Angle Turbidity Analysis
NIST Calibration Standards